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AP - JP19930346057 19931224  
CPY - CHIB-N  
DC - B05 B07  
DR - 0121-U 0148-U  
FS - CPI  
IC - A61K9/127 ; A61K37/14 ; B01J13/02  
MC - B01-D02 B04-B01B B05-B01P B07-A02 B10-C04E  
M1 - [04] M423 M431 M782 M903 R033 V600 V616  
- [05] M423 M431 M782 M903 R033 V735 V772  
M2 - [02] B415 B701 B713 B720 B815 B831 J0 J012 J2 J272 L7 L722 M210 M211  
M225 M231 M262 M273 M282 M283 M312 M313 M321 M332 M342 M343 M383 M392  
M411 M431 M510 M520 M530 M540 M620 M782 M903 M904 R033 V0 V771;  
R06521-M  
- [03] J0 J011 J1 J171 M225 M231 M262 M281 M320 M416 M431 M620 M782 M903  
M904 M910 R033; R00121-M; 0121-U  
M5 - [01] M431 M782 M903 M904 M910 R033 S005 S032 S131 S133 S134 S142 S143  
S303 S317 S503 U560 U563; R00148-M; 0148-U  
PA - (CHIB-N) CHIBA SEIFUN KK  
PN - JP6315623 A 19941115 DW199505 B01J13/02 006pp  
PR - JP19930075017 19930310  
XA - C1995-014446  
XIC - A61K-009/127 ; A61K-037/14 ; B01J-013/02  
AB - J06315623 Dried vesicles are prep'd. by adding glycolipid to  
phospholipid vesicles and drying under reduced pressure without  
lyophilisation.  
- Pref. the glycolipid is oligo-lipid with 2 to 30 sugar units and  
hydrophobic group at the terminal aldose anomer. The hydrophobic gp.  
is 12-22C alkyl chain with or without 1 to 4 unsatd. binding or  
cholesterol, and its binding is ester, amide or ether type.  
- USE/ADVANTAGE - The dried phospholipid vesicle is used as drug carrier  
for drug-delivery system and is also used as artificial  
oxygen-carrier. It is stable.  
- In an example, hexa-decyl-malto-pentaoneamide of 96 mg in 2 ml of  
methanol was mixed with 500 mg of mixture of  
dipalmitoyl-glycero-phosphatidylcholine, cholesterol and palmitic acid  
(molar ratio of 7:7:2) in 20 ml of chloroform. The mixt. was placed in  
a flask to make thin film inside the flask using a rotary evaporator,  
and 40 g/dl of purified stroma-free haemoglobin (Hb) soln. of 10 ml  
was added to the flask. Hb-included vesicle dispersion was prepared  
with conventional extrusion method and dried using a vacuum pump. The  
prep'd. vesicle showed Hb leakage rate of 10.3% and particle size  
distribution of 240 +/- 83 nm when it was redispersed in the pure  
water. The particle size distribution did not change after  
drying.(Dwg.0/0)  
CN - R00121-M R00148-M R06521-M  
DRL - 0121-U 0148-U  
IW - DRY VESICLE CARRY DRUG DELIVER SYSTEM PREPARATION ADD GLYCO LIPID  
PHOSPHOLIPID VESICLE DRY REDUCE PRESSURE LYOPHILISE  
IKW - DRY VESICLE CARRY DRUG DELIVER SYSTEM PREPARATION ADD GLYCO LIPID  
PHOSPHOLIPID VESICLE DRY REDUCE PRESSURE LYOPHILISE

NC - 001

OPD - 1993-03-10

ORD - 1994-11-15

PAW - (CHIB-N) CHIBA SEIFUN KK

TI - Dried vesicles used as carrier for drug delivery system - prepd. by  
adding glyco-lipid to phospholipid vesicles and drying under reduced  
pressure without lyophilisation